



CEN5021 NP SEQ LIST 09-10-04.txt  
SEQUENCE LISTING

<110> Mercken, Marc; Benson, Jacqueline M.  
<120> ANTI-AMYLOID ANTIBODIES, COMPOSITIONS, METHODS AND USES  
<130> CEN5021 NP  
<140> US 10/810,881  
<141> 2004-03-26  
<150> US 60/458,474  
<151> 2003-03-28  
<150> US 60/458,469  
<151> 2003-03-28  
<150> US 60/458,509  
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Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa  
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Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Xaa Arg  
35 40 45

Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu Leu  
50 55 60

Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa  
65 70 75 80

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Thr Lys Gly  
85 90 95

Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly  
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Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro  
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Gln Ile Thr Leu Lys Glu Ser Gly Pro Ala Leu Val Lys Pro Thr Gln  
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Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Ala Xaa Arg Leu  
35 40 45

Thr Ile Thr Lys Asp Thr Ser Lys Asn Gln Val Val Leu Thr Met Thr  
50 55 60

Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala Arg Xaa Trp  
65 70 75 80

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro Thr Ser Pro  
85 90 95

Lys Val Phe Pro Leu Ser Leu Ser Ser Lys Ser Thr Ser Gly Gly Thr  
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Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro  
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Glu Val Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
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Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Xaa  
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Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Xaa Arg  
35 40 45

Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met  
50 55 60

Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa  
65 70 75 80

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Thr Lys Ala  
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Pro Ser Val Phe  
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any amino acids.

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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Xaa Trp  
20 25 30

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Xaa Arg Phe  
35 40 45

Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn  
50 55 60

Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Thr Thr Xaa Trp  
65 70 75 80

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro  
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Ser Val Phe Pro Leu Ala  
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Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Gly Xaa Trp  
20 25 30

Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Xaa Arg Phe  
35 40 45

Thr Ile Ser Arg Asp Asp Ser Lys Ser Ile Ala Tyr Leu Gln Met Asn  
50 55 60

Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Thr Arg Asn Xaa  
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Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Thr Lys Gly  
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Pro Ser Val Leu Pro  
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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ser Ile Ser Ser  
20 25 30

Ser Xaa Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile Gly  
35 40 45

Xaa Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu  
50 55 60

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
65 70 75 80

Arg Xaa Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Pro Thr  
85 90 95

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Lys Ala Pro Asp Val Phe Pro Ile Ile Ser Gly Cys  
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Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Xaa  
20 25 30

CEN5021 NP SEQ LIST 09-10-04.txt

Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met Gly Xaa Gln  
35 40 45

Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr Leu Gln Trp  
50 55 60

Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys Ala Arg Xaa  
65 70 75 80

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys Ala  
85 90 95

Pro Ser Val Phe Pro Leu Val Ser Cys Glu Asn Ser Pro Ser Asp Thr  
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Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe Leu Pro Asp Ser  
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Ile Thr Phe Ser  
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Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Xaa Trp  
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Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu Trp Leu Gly Xaa Arg Ile  
35 40 45

Thr Ile Asn Pro Asp Thr Ser Lys Asn Gln Phe Ser Leu Gln Leu Asn  
50 55 60

Ser Val Thr Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa Trp  
65 70 75 80

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro  
85 90 95

Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser Pro Ser Asp Thr Ser  
100 105 110

Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe Leu Pro  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Xaa Trp  
20 25 30

Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Xaa Arg Phe  
35 40 45

Val Phe Ser Leu Asp Thr Ser Val Ser Thr Ala Tyr Leu Gln Ile Ser  
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Ser Leu Lys Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Xaa Trp  
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Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ser  
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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
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Asp Arg Arg Val Thr Ile Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly  
20 25 30

Lys Ala Pro Lys Leu Leu Ile Tyr Xaa Gly Val Pro Ser Arg Phe Ser  
35 40 45

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
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Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Xaa Phe Gly Gln Gly Thr Lys  
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Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe  
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Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly  
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1

5

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Gln Pro Ala Ser Ile Ser Cys Xaa Trp Tyr Leu Gln Lys Pro Gly Gln  
20 25 30

Ser Pro Gln Leu Leu Ile Tyr Xaa Gly Val Pro Asp Arg Phe Ser Gly  
35 40 45

Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala  
50 55 60

Glu Asp Val Gly Val Tyr Tyr Cys Xaa Phe Gly Gln Gly Thr Lys Val  
65 70 75 80

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe  
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Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly  
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Gln  
20 25 30

Ala Pro Arg Leu Leu Ile Tyr Xaa Gly Ile Pro Asp Arg Phe Ser Gly  
35 40 45

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro  
50 55 60

Glu Asp Phe Ala Val Tyr Tyr Cys Xaa Phe Gly Gln Gly Thr Lys Val  
65 70 75 80

Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val  
85 90

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Glu Thr Thr Leu Thr Gln Ser Pro Ala Phe Met Ser Ala Thr Pro Gly  
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Asp Lys Val Asn Ile Ser Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Glu  
20 25 30

Ala Ala Ile Phe Ile Ile Gln Xaa Gly Ile Pro Pro Arg Phe Ser Gly  
35 40 45

Ser Gly Tyr Gly Thr Asp Phe Thr Leu Thr Ile Asn Asn Ile Glu Ser  
50 55 60

Glu Asp Ala Ala Tyr Tyr Phe Cys Xaa Leu Arg His Phe Trp Pro Gly  
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Asp Gln Ala Ala Gly  
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Glu Ile Val Met Thr Gln Ser Pro Val Asn Leu Ser Met Ser Ala Gly  
1 5 10 15

Glu Xaa Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe Ile  
20 25 30

Tyr Xaa Gly Ile Ser Ala Arg Phe Ser Gly Ser Gly Thr Asp  
35 40 45

Phe Thr Leu Thr Ile Thr Ser Leu Gln Ser Glu Asp Phe Ala Val Tyr  
50 55 60

Tyr Cys Xaa Phe Gly Gln Gly Thr Lys Leu Asp Ile Lys Arg Thr  
65 70 75

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Glu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Xaa  
1 5 10 15

Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Arg Leu Val Ile His Xaa  
20 25 30

Gly Ile Ser Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
35 40 45

Leu Thr Ile Thr Arg Leu Glu Pro Glu Asp Phe Ala Leu Tyr Tyr Cys  
50 55 60

Xaa Phe Gly Gln Gly Thr Lys Leu Asp Phe Lys Arg Thr  
65 70 75

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<400> 16

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Xaa Trp Tyr Gln Gln Leu Pro Gly Thr Ala  
20 25 30

Pro Lys Leu Leu Ile Tyr Xaa Gly Val Pro Asp Arg Phe Ser Gly Ser  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt  
Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro  
85 90 95

Ser Ser

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CEN5021 NP SEQ LIST 09-10-04.txt

<223> framework 4

<400> 17

Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly  
1 5 10 15

Gln Lys Val Thr Ile Ser Cys Xaa Trp Tyr Gln Gln Leu Pro Gly Thr  
20 25 30

Ala Pro Lys Leu Leu Ile Tyr Xaa Gly Ile Pro Asp Arg Phe Ser Gly  
35 40 45

Ser Lys Ser Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr  
50 55 60

Gly Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu  
65 70 75 80

Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro  
85 90 95

Pro Ser Ser

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CEN5021 NP SEQ LIST 09-10-04.txt

amino acids.

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<400> 18

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Xaa Trp Tyr Gln Gln His Pro Gly Lys Ala  
20 25 30

Pro Lys Leu Met Ile Tyr Xaa Gly Val Ser Asn Arg Phe Ser Gly Ser  
35 40 45

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Thr Thr Lys Leu  
65 70 75 80

Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro  
85 90 95

Pro Ser Ser

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<400> 19

Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Arg Ile Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
20 25 30

Pro Val Leu Val Ile Tyr Xaa Gly Ile Pro Glu Arg Phe Ser Gly Ser  
35 40 45

Ser Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Val Gln Ala Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro  
85 90 95

Ser Ser Glu Glu Leu Gln Ala Asn Lys Ala Thr  
100 105

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<400> 20

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln  
1 5 10 15

Thr Ala Arg Ile Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
20 25 30

Pro Val Leu Val Val Tyr Asp Xaa Gly Ile Pro Glu Arg Phe Ser Gly  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala  
50 55 60

Gly Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu  
65 70 75 80

Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Thr Val Thr  
85 90

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<400> 21

CEN5021 NP SEQ LIST 09-10-04.txt

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1 5 10 15

Thr Ala Ser Ile Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
20 25 30

Pro Val Leu Val Ile Tyr Xaa Gly Ile Pro Glu Arg Phe Ser Gly Ser  
35 40 45

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Arg Ser Leu Cys Pro Pro  
85 90 95

Pro Pro

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<400> 22

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
1 5 10 15

Thr Val Arg Ile Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
20 25 30

Pro Val Leu Val Ile Tyr Xaa Gly Ile Pro Asp Arg Phe Ser Gly Ser  
35 40 45

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro  
85 90 95

Ser Ser

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<400> 23

Gln Pro Val Leu Thr Gln Ser Ser Ser Ala Ser Ala Ser Leu Gly Ser  
1 5 10 15

Ser Val Lys Leu Thr Cys Xaa Trp His Gln Gln Gln Pro Gly Lys Ala  
20 25 30

Pro Arg Tyr Leu Met Lys Xaa Gly Val Pro Asp Arg Phe Ser Gly Ser  
35 40 45

Ser Ser Gly Ala Asp Arg Tyr Leu Thr Ile Ser Asn Leu Gln Ser Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe  
85 90

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<223> framework 4

<400> 24

Gln Leu Val Leu Thr Gln Ser Pro Ser Ala Ser Ala Ser Leu Gly Ala  
1 5 10 15

Ser Val Lys Leu Thr Cys Xaa Trp His Gln Gln Gln Pro Glu Lys Gly  
20 25 30

Pro Arg Tyr Leu Met Lys Xaa Gly Ile Pro Asp Arg Phe Ser Gly Ser  
35 40 45

Ser Ser Gly Ala Glu Arg Tyr Leu Thr Ile Ser Ser Leu Gln Ser Glu  
50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Ile Gly Gly Gly Thr  
65 70 75 80

CEN5021 NP SEQ LIST 09-10-04.txt

Lys Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Ser  
85 90 95

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<400> 25

Gln Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala  
1 5 10 15

Ser Ala Ser Leu Thr Cys Xaa Trp Tyr Gln Gln Lys Pro Gly Ser Pro  
20 25 30

CEN5021 NP SEQ LIST 09-10-04.txt

Pro Gln Tyr Leu Leu Arg Tyr Xaa Gly Val Pro Ser Arg Phe Ser Gly  
35 40 45

Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Leu Leu Ile Ser Gly Leu  
50 55 60

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr  
65 70 75 80

Lys Leu Thr Val Leu Ser Gln Pro  
85

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<223> complementarity determinng region 2 (CDR2), x is 3-20 (7) of any amino acids.

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<400> 26

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys  
1 5 10 15

Thr Val Thr Ile Ser Cys Xaa Trp Tyr Gln Gln Arg Pro Gly Ser Ala  
20 25 30

Pro Thr Thr Val Ile Tyr Xaa Gly Val Pro Asp Arg Phe Ser Gly Ser  
35 40 45

Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly Leu Lys  
50 55 60

Thr Glu Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys  
65 70 75 80

Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe  
85 90 95

Pro Pro Ser Ser Ser  
100

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<220>  
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Gln Ala Val Val Thr Gln Glu Pro Ser Leu Thr Val Ser Pro Gly Gly  
1 5 10 15

Thr Val Thr Leu Thr Cys Xaa Trp Phe Gln Gln Lys Pro Gly Gln Ala  
20 25 30

Pro Arg Ala Leu Ile Tyr Xaa Trp Thr Pro Ala Arg Phe Ser Gly Ser  
35 40 45

Leu Leu Gly Gly Lys Ala Ala Leu Thr Leu Ser Gly Val Gln Pro Glu  
50 55 60

Asp Glu Ala Glu Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Gln Thr Val Val Thr Gln Glu Pro Ser Phe Ser Val Ser Pro Gly Gly  
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Thr Val Thr Leu Thr Cys Xaa Trp Tyr Gln Gln Thr Pro Gly Gln Ala  
20 25 30

Pro Arg Thr Leu Ile Tyr Xaa Gly Val Pro Asp Arg Phe Ser Gly Ser  
35 40 45

Ile Leu Gly Asn Lys Ala Ala Leu Thr Ile Thr Gly Ala Gln Ala Asp  
50 55 60

Asp Glu Ser Asp Tyr Tyr Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
65 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Ser Val Thr Leu Thr Cys Xaa Trp Tyr Gln Gln Arg Pro Gly Lys Gly  
20 25 30

Pro Arg Phe Val Met Arg Xaa Gly Ile Pro Asp Arg Phe Ser Val Leu  
35 40 45

Gly Ser Gly Leu Asn Arg Tyr Leu Thr Ile Lys Asn Ile Gln Glu Glu  
50 55 60

Asp Glu Ser Asp Tyr His Cys Xaa Phe Gly Gly Gly Thr Lys Leu Thr  
Page 36

65 CEN5021 NP SEQ LIST 09-10-04.txt 70 75 80

Val Leu Gly Gln Pro Lys Ala Ala Pro Ser Val  
85 90

<210> 30  
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Gln Ala Gly Leu Thr Gln Pro Pro Ser Val Ser Lys Gly Leu Arg Gln  
1 5 10 15

Thr Ala Thr Leu Thr Cys Xaa Trp Leu Gln Gln His Gln Gly His Pro  
Page 37

## CEN5021 NP SEQ LIST 09-10-04.txt

20

25

30

Pro Lys Leu Leu Ser Tyr Xaa Gly Ile Ser Glu Arg Phe Ser Ala Ser  
 35 40 45

Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Leu Gln Pro Glu  
 50 55 60

Asp Glu Ala Asp Tyr Tyr Cys Xaa Phe Gly Gly Thr Lys Leu Thr  
 65 70 75 80

Val Leu Gly Gln Pro Lys Ala  
 85

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 1 5 10 15

Gln Pro Asp Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe  
 20 25 30

Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Gly Val  
 35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr  
50 55 60

Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Leu Ala Gly  
65 70 75 80

Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp  
85 90 95

Val Thr Val Pro Cys Pro Val Pro Ser Thr Pro Pro Thr Pro Ser Pro  
100 105 110

Ser Thr Pro Pro Thr Pro Ser Pro Ser Cys Cys His Pro Arg Leu Ser  
115 120 125

Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn  
130 135 140

Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly Val Thr Phe  
145 150 155 160

Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu  
165 170 175

Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys  
180 185 190

Ala Glu Pro Trp Asn His Gly Lys Thr Phe Thr Cys Thr Ala Ala Tyr  
195 200 205

Pro Glu Ser Lys Thr Pro Leu Thr Ala Thr Leu Ser Lys Ser Gly Asn  
210 215 220

Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser Glx Glu Glu  
225 230 235 240

Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe  
245 250 255

Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu  
260 265 270

Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln  
275 280 285

Gly Thr Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu  
290 295 300

CEN5021 NP SEQ LIST 09-10-04.txt

Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala  
305 310 315 320

Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys  
325 330 335

Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr  
340 345 350

Cys Tyr

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<400> 32

Ala Ser Pro Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Asp Ser Thr  
1 5 10 15

Pro Gln Asp Gly Asn Val Val Val Ala Cys Leu Val Gln Gly Phe Phe  
20 25 30

Pro Gln Glu Pro Leu Ser Val Thr Trp Ser Glu Ser Gly Gln Asn Val  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Thr Ala Arg Asn Phe Pro Pro Ser Gln Asp Ala Ser Gly Asp Leu Tyr  
50 55 60

Thr Thr Ser Ser Gln Leu Thr Leu Pro Ala Thr Gln Cys Pro Asp Gly  
65 70 75 80

Lys Ser Val Thr Cys His Val Lys His Tyr Thr Asn Pro Ser Gln Asp  
85 90 95

Val Thr Val Pro Cys Pro Val Pro Pro Pro Pro Cys Cys His Pro  
100 105 110

Arg Leu Ser Leu His Arg Pro Ala Leu Glu Asp Leu Leu Leu Gly Ser  
115 120 125

Glu Ala Asn Leu Thr Cys Thr Leu Thr Gly Leu Arg Asp Ala Ser Gly  
130 135 140

Ala Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys Ser Ala Val Gln Gly  
145 150 155 160

Pro Pro Glu Arg Asp Leu Cys Gly Cys Tyr Ser Val Ser Ser Val Leu  
165 170 175

Pro Gly Cys Ala Gln Pro Trp Asn His Gly Glu Thr Phe Thr Cys Thr  
180 185 190

Ala Ala His Pro Glu Leu Lys Thr Pro Leu Thr Ala Asn Ile Thr Lys  
195 200 205

Ser Gly Asn Thr Phe Arg Pro Glu Val His Leu Leu Pro Pro Pro Ser  
210 215 220

Glu Glu Leu Ala Leu Asn Glu Leu Val Thr Leu Thr Cys Leu Ala Arg  
225 230 235 240

Gly Phe Ser Pro Lys Asp Val Leu Val Arg Trp Leu Gln Gly Ser Gln  
245 250 255

Glu Leu Pro Arg Glu Lys Tyr Leu Thr Trp Ala Ser Arg Gln Glu Pro  
260 265 270

Ser Gln Gly Thr Thr Phe Ala Val Thr Ser Ile Leu Arg Val Ala  
275 280 285

Ala Glu Asp Trp Lys Lys Gly Asp Thr Phe Ser Cys Met Val Gly His  
290 295 300

CEN5021 NP SEQ LIST 09-10-04.txt

Glu Ala Leu Pro Leu Ala Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala  
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Gly Lys Pro Thr His Val Asn Val Ser Val Val Met Ala Glu Val Asp  
325 330 335

Gly Thr Cys Tyr  
340

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Ala Pro Thr Lys Ala Pro Asp Val Phe Pro Ile Ile Ser Gly Cys Arg  
1 5 10 15

His Pro Lys Asp Asn Ser Pro Val Val Leu Ala Cys Leu Ile Thr Gly  
20 25 30

Tyr His Pro Thr Ser Val Thr Val Trp Tyr Met Gly Thr Gln Ser  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Gln Pro Gln Arg Thr Phe Pro Glu Ile Gln Arg Arg Asp Ser Tyr Tyr  
50 55 60

Met Thr Ser Ser Gln Leu Ser Thr Pro Leu Gln Gln Trp Arg Gln Gly  
65 70 75 80

Glu Tyr Lys Cys Val Val Gln His Thr Ala Ser Lys Ser Lys Lys Glu  
85 90 95

Ile Phe Arg Trp Pro Glu Ser Pro Lys Ala Gln Ala Ser Ser Val Pro  
100 105 110

Thr Ala Gln Pro Gln Ala Glu Gly Ser Leu Ala Lys Ala Thr Thr Ala  
115 120 125

Pro Ala Thr Thr Arg Asn Thr Gly Arg Gly Glu Glu Lys Lys Lys  
130 135 140

Glu Lys Glu Lys Glu Glu Gln Glu Glu Arg Glu Thr Lys Thr Pro Glu  
145 150 155 160

Cys Pro Ser His Thr Gln Pro Leu Gly Val Tyr Leu Leu Thr Pro Ala  
165 170 175

Val Gln Asp Leu Trp Leu Arg Asp Lys Ala Thr Phe Thr Cys Phe Val  
180 185 190

Val Gly Ser Asp Leu Lys Asp Ala His Leu Thr Trp Glu Val Ala Gly  
195 200 205

Lys Val Pro Thr Gly Gly Val Glu Glu Gly Leu Leu Glu Arg His Ser  
210 215 220

Asn Gly Ser Gln Ser Gln His Ser Arg Leu Thr Leu Pro Arg Ser Leu  
225 230 235 240

Trp Asn Ala Gly Thr Ser Val Thr Cys Thr Leu Asn His Pro Ser Leu  
245 250 255

Pro Pro Gln Arg Leu Met Ala Leu Arg Glu Pro Ala Ala Gln Ala Pro  
260 265 270

Val Lys Leu Ser Leu Asn Leu Leu Ala Ser Ser Asp Pro Pro Glu Ala  
275 280 285

Ala Ser Trp Leu Leu Cys Glu Val Ser Gly Phe Ser Pro Pro Asn Ile  
290 295 300

CEN5021 NP SEQ LIST 09-10-04.txt

Leu Leu Met Trp Leu Glu Asp Gln Arg Glu Val Asn Thr Ser Gly Phe  
305 310 315 320

Ala Pro Ala Arg Pro Pro Pro Gln Pro Arg Ser Thr Thr Phe Trp Ala  
325 330 335

Trp Ser Val Leu Arg Val Pro Ala Pro Pro Ser Pro Gln Pro Ala Thr  
340 345 350

Tyr Thr Cys Val Val Ser His Glu Asp Ser Arg Thr Leu Leu Asn Ala  
355 360 365

Ser Arg Ser Leu Glu Val Ser Tyr Val Thr Asp His Gly Pro Met Lys  
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Ala Ser Thr Gln Ser Pro Ser Val Phe Pro Leu Thr Arg Cys Cys Lys  
1 5 10 15

Asn Ile Pro Ser Asn Ala Thr Ser Val Thr Leu Gly Cys Leu Ala Thr  
20 25 30

Gly Tyr Phe Pro Glu Pro Val Met Val Thr Trp Asp Thr Gly Ser Leu  
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## CEN5021 NP SEQ LIST 09-10-04.txt

35

40

45

Asn Gly Thr Thr Met Thr Leu Pro Ala Thr Thr Leu Thr Leu Ser Gly  
50 55 60

His Tyr Ala Thr Ile Ser Leu Leu Thr Val Ser Gly Ala Trp Ala Lys  
65 70 75 80

Gln Met Phe Thr Cys Arg Val Ala His Thr Pro Ser Ser Thr Asp Trp  
85 90 95

Val Asp Asn Lys Thr Phe Ser Val Cys Ser Arg Asp Phe Thr Pro Pro  
100 105 110

Thr Val Lys Ile Leu Gln Ser Ser Cys Asp Gly Gly His Phe Pro  
115 120 125

Pro Thr Ile Gln Leu Leu Cys Leu Val Ser Gly Tyr Thr Pro Gly Thr  
130 135 140

Ile Asn Ile Thr Trp Leu Glu Asp Gly Gln Val Met Asp Val Asp Leu  
145 150 155 160

Ser Thr Ala Ser Thr Thr Gln Glu Gly Glu Leu Ala Ser Thr Gln Ser  
165 170 175

Glu Leu Thr Leu Ser Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr  
180 185 190

Cys Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys  
195 200 205

Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro  
210 215 220

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu  
225 230 235 240

Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser  
245 250 255

Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys  
260 265 270

Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val Gly Thr  
275 280 285

## CEN5021 NP SEQ LIST 09-10-04.txt

Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr His Pro  
 290 295 300

His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser Gly Pro  
 305 310 315 320

Val Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu  
 325 330 335

Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn  
 340 345 350

Phe Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln  
 355 360 365

Leu Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly  
 370 375 380

Ser Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp  
 385 390 395 400

Glu Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser  
 405 410 415

Pro Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys Asp  
 420 425 430

Val Cys Val Glu Glu Ala Glu Gly Glu Ala Pro Trp Thr Trp Thr Gly  
 435 440 445

Leu Cys Ile Phe Ala Ala Leu Phe Leu Leu Ser Val Ser Tyr Ser Ala  
 450 455 460

Ala Leu Thr Leu Leu Met Val Gln Arg Phe Leu Ser Ala Thr Arg Gln  
 465 470 475 480

Gly Arg Pro Gln Thr Ser Leu Asp Tyr Thr Asn Val Leu Gln Pro His  
 485 490 495

Ala

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
Page 47

145            150            155            160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
165                            170                    175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
180                            185                    190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
195                            200                    205

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly  
210                            215                    220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu  
225                            230                    235                    240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
245                            250                    255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asx Asn Gly Gln Pro Glu  
260                            265                    270

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe  
275                            280                    285

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly  
290                            295                    300

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr  
305                            310                    315                    320

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys Thr His Thr Cys Pro  
325                            330                    335

Pro Cys Pro

<210> 36  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr  
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro  
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp  
115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp  
130 135 140

Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly  
145 150 155 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn  
165 170 175

CEN5021 NP SEQ LIST 09-10-04.txt

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp  
180 185 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro  
195 200 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu  
210 215 220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn  
225 230 235 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile  
245 250 255

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr  
260 265 270

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys  
275 280 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys  
290 295 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu  
305 310 315 320

Ser Leu Ser Pro Gly Lys  
325

<210> 37  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
65 70 75 80

Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95

Arg Val Glu Leu Lys Thr Pro Leu Gly Asp Thr Thr His Thr Cys Pro  
100 105 110

Arg Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg  
115 120 125

Cys Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys  
130 135 140

## CEN5021 NP SEQ LIST 09-10-04.txt

Pro Glu Pro Lys Ser Cys Asp Thr Pro Pro Pro Cys Pro Arg Cys Pro  
 145 150 155 160

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
 165 170 175

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
 180 185 190

Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Lys Trp Tyr  
 195 200 205

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
 210 215 220

Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Leu His  
 225 230 235 240

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys  
 245 250 255

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln  
 260 265 270

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met  
 275 280 285

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro  
 290 295 300

Ser Asp Ile Ala Val Glu Trp Glu Ser Ser Gly Gln Pro Glu Asn Asn  
 305 310 315 320

Tyr Asn Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu  
 325 330 335

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Ile  
 340 345 350

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn Arg Phe Thr Gln  
 355 360 365

Lys Ser Leu Ser Leu Ser Pro Gly Lys  
 370 375

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Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr  
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95

Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro  
100 105 110

Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys  
115 120 125

Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val  
Page 53

CEN5021 NP SEQ LIST 09-10-04.txt  
130            135            140

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp  
145            150            155            160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe  
165            170            175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp  
180            185            190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu  
195            200            205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg  
210            215            220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys  
225            230            235            240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp  
245            250            255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys  
260            265            270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser  
275            280            285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser  
290            295            300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser  
305            310            315            320

Leu Ser Leu Ser Leu Gly Lys  
325

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Gly Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn  
1 5 10 15

Ser Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp  
20 25 30

Phe Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser  
35 40 45

Asp Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys  
50 55 60

Tyr Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln  
65 70 75 80

Gly Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn  
85 90 95

Lys Glu Lys Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys  
100 105 110

Val Ser Val Phe Val Pro Pro Arg Asp Gly Phe Phe Gly Asn Pro Arg  
115 120 125

Ser Lys Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg Gln  
130 135 140

Ile Gln Val Ser Trp Leu Arg Glu Gly Lys Gln Val Gly Ser Gly Val  
145 150 155 160

Thr Thr Asp Gln Val Gln Ala Glu Ala Lys Glu Ser Gly Pro Thr Thr  
165 170 175

CENS021 NP SEQ LIST 09-10-04.txt

Tyr Lys Val Thr Ser Thr Leu Thr Ile Lys Glu Ser Asp Trp Leu Ser  
180 185 190

Gln Ser Met Phe Thr Cys Arg Val Asp His Arg Gly Leu Thr Phe Gln  
195 200 205

Gln Asn Ala Ser Ser Met Cys Val Pro Asp Gln Asp Thr Ala Ile Arg  
210 215 220

Val Phe Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys Ser  
225 230 235 240

Thr Lys Leu Thr Cys Leu Val Thr Asp Leu Thr Thr Tyr Asp Ser Val  
245 250 255

Thr Ile Ser Trp Thr Arg Gln Asn Gly Glu Ala Val Lys Thr His Thr  
260 265 270

Asn Ile Ser Glu Ser His Pro Asn Ala Thr Phe Ser Ala Val Gly Glu  
275 280 285

Ala Ser Ile Cys Glu Asp Asp Trp Asn Ser Gly Glu Arg Phe Thr Cys  
290 295 300

Thr Val Thr His Thr Asp Leu Pro Ser Pro Leu Lys Gln Thr Ile Ser  
305 310 315 320

Arg Pro Lys Gly Val Ala Leu His Arg Pro Asp Val Tyr Leu Leu Pro  
325 330 335

Pro Ala Arg Glu Gln Leu Asn Leu Arg Glu Ser Ala Thr Ile Thr Cys  
340 345 350

Leu Val Thr Gly Phe Ser Pro Ala Asp Val Phe Val Gln Trp Gln Met  
355 360 365

Gln Arg Gly Gln Pro Leu Ser Pro Glu Lys Tyr Val Thr Ser Ala Pro  
370 375 380

Met Pro Glu Pro Gln Ala Pro Gly Arg Tyr Phe Ala His Ser Ile Leu  
385 390 395 400

Thr Val Ser Glu Glu Glu Trp Asn Thr Gly Glu Thr Tyr Thr Cys Val  
405 410 415

Val Ala His Glu Ala Leu Pro Asn Arg Val Thr Glu Arg Thr Val Asp  
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## CEN5021 NP SEQ LIST 09-10-04.txt

420

425

430

Lys Ser Thr Gly Lys Pro Thr Ser Ala Asp Glu Glu Gly Phe Glu Asn  
 435 440 445

Leu Trp Ala Thr Ala Ser Thr Phe Ile Val Leu Tyr Asn Val Ser Leu  
 450 455 460

Val Met Ser Asp Thr Ala Gly Thr Cys Tyr Val Lys  
 465 470 475

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 20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
 35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
 50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
 65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 100 105

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CEN5021 NP SEQ LIST 09-10-04.txt

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Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp  
20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro  
35 40 45

Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn  
50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys  
65 70 75 80

Ser His Arg Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr  
85 90 95

Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
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Asp His Tyr Val His  
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<223> HC CDR 2

<400> 43

CEN5021 NP SEQ LIST 09-10-04.txt

Trp Ile Ala Pro Lys Asn Gly Tyr Ser Glu Ser Ala Pro Lys Phe Gln  
1 5 10 15

Gly

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Gly Phe Tyr Asp Ser Ser Leu Tyr  
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Lys Ser Gly Gln Ser Leu Leu Ala Arg Asp Gly Lys Thr Tyr Leu Ser  
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<400> 46

Leu Val Ser Lys Leu Asp Ser  
1 5

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CEN5021 NP SEQ LIST 09-10-04.txt

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Trp Gln Gly Thr His Phe Pro Arg Thr  
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<400> 48

Met Lys Cys Ser Trp Val Ile Phe Phe Leu Met Ala Val Val Ile Gly  
Page 60

1

5

CEN5021 NP SEQ LIST 09-10-04.txt  
10 15

Ile Asn Ser Glu Gly Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg  
20 25 30

Ser Gly Ala Ser Leu Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile  
35 40 45

Lys Asp His Tyr Val His Trp Val Arg Gln Arg Pro Glu Gln Gly Leu  
50 55 60

Asp Trp Ile Gly Trp Ile Ala Pro Lys Asn Gly Tyr Ser Glu Ser Ala  
65 70 75 80

Pro Lys Phe Gln Gly Lys Ala Ser Met Thr Ala Asp Thr Ser Ser Asn  
85 90 95

Thr Val Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val  
100 105 110

Tyr Tyr Cys Phe Ala Gly Phe Tyr Asp Ser Ser Leu Tyr Trp Gly Gln  
115 120 125

Gly Thr Thr Leu Thr Val Ser Ser  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Met Met Ser Pro Ala Gln Phe Leu Phe Leu Leu Val Leu Trp Ile Arg  
1 5 10 15

Glu Thr Asn Gly Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ala  
20 25 30

Val Thr Ile Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Gly Gln Ser  
35 40 45

Leu Leu Ala Arg Asp Gly Lys Thr Tyr Leu Ser Trp Leu Leu Gln Arg  
50 55 60

Pro Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Lys Leu Asp  
65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe  
85 90 95

Thr Leu Lys Ile Asn Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Tyr  
100 105 110

Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly Thr Asn  
115 120 125

Leu Glu Ile Lys Arg  
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Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln Lys  
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Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
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Gly Leu Met Val Gly Gly Val Val Ile Ala  
35 40

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CEN5021 NP SEQ LIST 09-10-04.txt

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tgcacagctt ctggcttcaa tattaaagac cactatgtac actgggtgag gcagaggcct 180  
gaacagggcc tggactggat tggatggatt gctccgaaga atggttatag tgaatctgcc 240  
ccgaaattcc agggcaaggc cagtatgact gcagacacat cctccaacac agtctacctg 300  
cagctcagca gcctgacatc tgaggacact gccgtctatt actgtttgc agggtttac 360  
gatagtagcc tctactgggg ccagggcacc actctcacag tctcttca 408

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CEN5021 NP SEQ LIST 09-10-04.txt

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gacgttgtaa tgacccagac tccactcaact ttggcggtta ccattggaca accagcctcc 120  
atctcttgca agtcaggtca gagcctctta gcaagagatg gaaagacata tttgagttgg 180  
ttattacaga ggccaggcca gtctccaaag cgccctaattct atctgggtgc taaactggac 240  
tctggagtcc ctgacaggtt ctctggcagt ggatcaggga cagatttcac actgaaaatc 300  
aacagagtgg aggctgagga tttggagtt tattattgct ggcaaggtac acatttcct 360  
cggacgttcg gtggaggcac caacctggaa atcaaacgg 399

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Thr Ser Gly Met Gly Val Ser  
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His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr Asn Pro Ser Leu Lys Ser  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Ser Ser Gly Ser Ile Val Ile Ala Thr Gly Phe Ala Tyr  
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Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu Glu  
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Lys Val Ser Asn Arg Phe Ser  
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Phe Gln Gly Ser Arg Val Pro Leu Thr  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Met Asp Arg Leu Thr Ser Ser Phe Leu Leu Leu Ile Val Pro Ala Tyr  
1 5 10 15

Val Leu Ser Gln Val Thr Leu Lys Glu Ser Gly Pro Gly Ile Leu Gln  
20 25 30

Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Phe Ser Gly Phe Ser Leu  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Ser Thr Ser Gly Met Gly Val Ser Trp Ile Arg Gln Pro Ser Gly Lys  
50 55 60

Gly Leu Glu Trp Leu Ala His Ile Tyr Trp Asp Asp Asp Lys Arg Tyr  
65 70 75 80

Asn Pro Ser Leu Lys Ser Arg Leu Thr Ile Ser Lys Asp Thr Ser Arg  
85 90 95

Asn Gln Val Phe Leu Lys Ile Thr Ser Val Asp Thr Thr Asp Thr Ala  
100 105 110

Thr Tyr Tyr Cys Thr Arg Ser Ser Gly Ser Ile Val Ile Ala Thr Gly  
115 120 125

Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro Gly  
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Ser Ser Ser Asp Val Met Met Thr Gln Thr Pro Leu Ser Leu Pro Val  
20 25 30

Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu  
35 40 45

Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr Met Gln Lys Pro  
50 55 60

Gly Gln Ser Pro Met Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser  
65 70 75 80

Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr  
85 90 95

Leu Lys Ile Ser Ser Val Glu Ala Glu Asp Leu Gly Val Phe Tyr Cys  
100 105 110

Phe Gln Gly Ser Arg Val Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu  
115 120 125

Glu Leu Lys Arg  
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CEN5021 NP SEQ LIST 09-10-04.txt

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tgttcttcttct ctgggttttc actgagcaact tctggtatgg gtgtgagctg gattcgtcag 180  
ccttcaggaa agggtctgga gtggctggca cacatttact gggatgatga caaacgatat 240  
aatccatccc tgaagagccg gctcacaatc tccaaggata cttccagaaaa ccaggtattc 300  
ctcaagatca ccagtgtgga cactacagat actgccacat actactgtac tcgaagttcc 360  
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CEN5021 NP SEQ LIST 09-10-04.txt

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CEN5021 NP SEQ LIST 09-10-04.txt

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Gly

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Glu Gly Ser Asn Asn Asn Ala Leu Ala Tyr  
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Ser Ala Ser Ser Ser Val Ser Tyr Met His  
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Met Glu Trp Thr Trp Val Phe Leu Phe Leu Leu Ser Val Thr Ala Gly  
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Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Met Lys  
20 25 30

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Thr Gly Tyr Thr Phe  
35 40 45

Ser Thr Ser Trp Ile Glu Trp Ile Lys Gln Arg Pro Gly His Gly Leu  
50 55 60

Glu Trp Ile Gly Glu Val Leu Pro Gly Ser Gly Lys Ser Asn His Asn  
65 70 75 80

Ala Asn Phe Lys Gly Arg Ala Thr Phe Thr Ala Asp Thr Ala Ser Asn  
85 90 95

Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val  
100 105 110

Tyr Tyr Cys Ala Arg Glu Gly Ser Asn Asn Asn Ala Leu Ala Tyr Trp  
115 120 125

Gly Gln Gly Thr Leu Val Thr Val Ser Ala  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Val Ile Ile Ser Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Ile  
20 25 30

Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser  
35 40 45

CEN5021 NP SEQ LIST 09-10-04.txt

Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln Lys Ser Gly Thr Ser  
50 55 60

Pro Lys Arg Trp Ile Tyr Asp Ser Ser Arg Leu Ala Ser Gly Val Pro  
65 70 75 80

Ser Arg Phe Ser Gly Gly Ser Gly Thr Ser Tyr Ser Pro Thr Ile  
85 90 95

Ser Asn Met Glu Ala Glu Asp Ala Ala Thr Tyr Phe Cys Gln Asn Trp  
100 105 110

Arg Ser Ser Pro Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Arg  
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CEN5021 NP SEQ LIST 09-10-04.txt

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gcgaacttta agggcagggc cacatttact gcagatacag cctccaacac agcctacatg 300  
cagctcagca gcctgacatc tgaggactct gccgtctatt atttgcaag agaggggagt 360  
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CEN5021 NP SEQ LIST 09-10-04.txt

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gtcaccatga cctgcagtc cagctcaagt gtgagttaca tgactggta ccaacagaag 180  
tcaggcacct cccccaaaag atggatttat gacagttcca gactggcttc tggagtccct 240  
tctcgcttca gtggcggtgg gtctgggacc tcttactctc ccacaatcag caacatggag 300  
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Ser Ile Asn Pro Asn Thr Gly Gly Ser Arg Tyr Asn Gln Lys Phe Lys  
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Gly

CEN5021 NP SEQ LIST 09-10-04.txt

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<400> 75

Gly Asp Phe Asp Tyr  
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Arg Ser Ser Lys Asn Leu Leu His Ser Asn Gly Ile Thr Tyr Leu Tyr  
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CEN5021 NP SEQ LIST 09-10-04.txt

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<223> FR4/J Region

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CEN5021 NP SEQ LIST 09-10-04.txt  
Val Leu Ser Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Val Lys  
20 25 30

Pro Gly Ala Ser Val Lys Thr Ser Cys Lys Thr Ser Gly Tyr Ser Phe  
35 40 45

Thr Glu Tyr Ile Met Ser Trp Val Arg Gln Ser His Gly Lys Ser Leu  
50 55 60

Glu Trp Ile Gly Ser Ile Asn Pro Asn Thr Gly Gly Ser Arg Tyr Asn  
65 70 75 80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser  
85 90 95

Thr Ala Tyr Met Glu Phe Arg Ser Leu Thr Ser Glu Asp Ser Ala Val  
100 105 110

Tyr Tyr Cys Ala Arg Gly Asp Phe Asp Tyr Trp Gly Gln Gly Thr Thr  
115 120 125

Leu Thr Val Ser Ser  
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Gly Ser Thr Ala Asp Ile Val Met Thr Gln Ala Ala Phe Ser Asn Pro  
20 25 30

Val Thr Leu Gly Thr Ser Ala Ser Ile Ser Cys Arg Ser Ser Lys Asn  
35 40 45

Leu Leu His Ser Asn Gly Ile Thr Tyr Leu Tyr Trp Tyr Leu Gln Arg  
50 55 60

Pro Gly Gln Ser Pro Gln Leu Leu Ile Ser Arg Val Ser Asn Leu Ala  
65 70 75 80

Ser Gly Val Pro Asn Arg Phe Ser Gly Ser Glu Ser Gly Thr Asp Phe  
85 90 95

Thr Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr  
100 105 110

Cys Ala Gln Leu Leu Glu Leu Pro Phe Thr Phe Gly Ser Gly Thr Lys  
115 120 125

Leu Glu Ile Lys Arg  
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CEN5021 NP SEQ LIST 09-10-04.txt

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tgcaagactt ctggatactc attcaactgaa tacatcatga gctgggtgag gcagagccat 180  
ggaaagagcc ttgagtgat tggaagtatt aatcctaaca ctgggttag tagataacaac 240  
cagaaaattca agggcaaggc cacgttgact gtagataagt cctccagcac agcctacatg 300  
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## CEN5021 NP SEQ LIST 09-10-04.txt

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atctcctgca ggtcttagtaa gaatctcccta catagtaatg gcatcactta tttgtattgg 180  
tatctgcaga gcccaggcca gtctccctcg ctcctgatat ctcgggtgtc caatctggcc 240  
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agcagagtg aggctgagga tgtgggtgtt tattactgtg ctcaactgct agaactcccc 360  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His  
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Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala  
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CEN5021 NP SEQ LIST 09-10-04.txt

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<210> 89

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Ile Gly Leu Met Val Gly Gly  
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Leu Met Val Gly Gly Val  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln  
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Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His  
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Glu Val His His Gln Lys Leu  
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CEN5021 NP SEQ LIST 09-10-04.txt

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Gln Lys Leu Val Phe Phe Ala  
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Arg His Asp Ser Gly Tyr  
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Ser Gly Tyr Glu Val His  
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Gly Val Val Ile Ala Thr  
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